RECEIVED CENTRAL FAX CENTER

## AUG 0 2 2007

## <u>AMENDMENTS TO THE CLAIMS</u>

The following listing of claims replaces all prior versions:

1. - 17. (Cancelled)

18. (Currently Amended) An apparatus comprising:

a skin of a computing device, said skin comprising a conductive material;

<u>and</u>

a slot in the skin, said slot comprising a slot antenna, wherein the slot antenna comprises a sector slot antenna having a directional radiation pattern. The apparatus of claim 17 wherein the sector slot antenna comprises a first sector slot antenna in a sector antenna system, said sector antenna system further comprising:

a second sector slot antenna in the skin, said second sector slot antenna having a directional radiation pattern in a different direction than the first sector slot antenna.

19. (Currently Amended) The apparatus of <u>claim 18</u>, <u>said sector antenna</u>

<u>system claim 17</u> wherein the sector slot antenna comprises a first sector elet

<del>antenna in a sector antenna system, the apparatus further comprising:</del>

a plurality of additional sector slot antennas in the skin, each of the plurality of additional sector slot antennas having a directional radiation pattern covering a different sector surrounding the computing device.

-2-

Atty. Docket No.: P17641 Application No.: 10/750,557

- 20. (Currently Amended) The apparatus of claim 17 claim 18 wherein the first sector slot antenna has the directional radiation pattern for multiple resonant frequency bands.
- 21. (Currently Amended) The apparatus of elaim-1-claim 18 further comprising:

  a tuning element coupled to the slot, said tuning element to tune a
  secondary frequency for the slot antenna.
- 22. (Original) The apparatus of claim 21 wherein the tuning element comprises a stub capacitor.
- 23. (Currently Amended) The apparatus of claim 1- claim 18 wherein the slet antenna comprises a first-slet antenna, the apparatus-further comprising:

a third sector slot antenna having a same directional radiation pattern as the first sector slot antenna, said first sector slot antenna and said third sector slot antenna second slot antenna in the skin, said first slot antenna and said second slot antenna-comprising a diversity antenna.

- 24. 28. (Cancelled)
- 29. (Currently Amended) A system comprising:

a notebook computer:

a skin covering at least a portion of the notebook computer, said skin comprising a conductive material; and

a slot in the skin, said slot comprising a slot antenna, wherein the slot antenna comprises a sector slot antenna having a directional radiation pattern,

The system of claim 24 wherein the sector slot antenna comprises a first sector slot antenna in a sector antenna system, said sector antenna system further comprising:

a second sector slot antenna in the skin, said second sector slot antenna having a directional radiation pattern in a different direction than the first sector slot antenna.

30. (Currently Amended) The system of elaim 24-claim 29, said sector antenna system wherein the sector slot antenna comprises a first sector slot antenna in a sector antenna-system, the apparatus further comprising:

a plurality of additional sector slot antennas in the skin, each of the plurality of additional sector slot antennas having a directional radiation pattern covering a different sector surrounding the notebook computer.

31. (Currently Amended) The system of claim 24 claim 29 wherein the slot antenna comprises a first slot antenna, the apparatus further comprising:

a third sector slot antenna having a same directional radiation pattern as the first sector slot antenna, said first sector slot antenna and said third sector

slot antenna second slot antenna in the skin, said first slot antenna and said second-slot-antenna-comprising a diversity antenna.

32. (Original) An apparatus comprising:

08/02/07 15:59 FAX 5032641729

a skin of a computing device, said skin comprising a conductive material:

a first slot in the skin, said first slot comprising a first sector slot antenna

having a radiation pattern in a first direction;

a second slot in the skin, said second slot comprising a second sector slot

antenna having a radiation pattern in a second direction;

a third slot in the skin, said third slot comprising a third sector slot antenna

having a radiation pattern in a third direction; and

a fourth slot in the skin, said fourth slot comprising a fourth sector slot

antenna having a radiation pattern in a fourth direction.

33. (Original) The apparatus of claim 32 wherein the first, second, third, and

fourth sector slot antennas have a primary resonant frequency and a secondary

resonant frequency tuned for two different wireless communications standards.

34. (New) The apparatus of claim 18 wherein the conductive material

comprises an outer layer of the skin in at least a vicinity of the slot of the first

sector slot antenna.

-5-

Atty. Docket No.: P17641

08/02/07 15:59 FAX 5032641729 **2**008

35. (New) The apparatus of claim 34 wherein the outer layer comprises one of

a conductive coating and a conductive mesh.

36. (New) The apparatus of claim 34 wherein the slot of the first sector slot

antenna extends through only the outer layer.

37. (New) The apparatus of claim 34 wherein the slot of the first sector slot

antenna extends through multiple layers of the skin.

38. (New) The apparatus of claim 18 wherein the skin is made entirely of the

conductive material.

39. (New) The apparatus of claim 18 wherein the computing device comprises

one of a notebook computer, a tablet computer, and a handheld computer.

40. (New) The apparatus of claim 18 wherein the computing device comprises

at least one of a base and a lid, and wherein the slot of the first sector slot

antenna is located in at least one of an edge of the base, an edge of the lid, an

outside of the lid, an inside of the lid, through the lid, and through the base.

41. (New) The apparatus of claim 18, said first sector slot antenna comprising a

cavity behind the slot, said cavity having a depth of approximately one-quarter of

a wavelength of a resonant frequency of the first sector slot antenna.

- 6 -

Atty. Docket No.: P17641

Application No.: 10/750,557

42. (New) The apparatus of claim 18, said first sector slot antenna comprising

an impedance plane coupled to the skin under the slot of the first sector slot

antenna.

08/02/07 15:59 FAX 5032641729

(New) The apparatus of claim 42 wherein the impedance plane comprises

an Artificial Magnetic Conductor (AMC).

44. (New) The apparatus of claim 42 wherein the impedance plane comprises a

multiple band impedance plane, said multiple band impedance plane to act as a

magnetic conductor for a primary resonant frequency and a secondary resonant

frequency of the slot.

45. (New) The apparatus of claim 18 wherein the first sector slot antenna has a

primary resonant frequency and a secondary resonant frequency.

46. (New) The apparatus of claim 45 wherein the primary resonant frequency

and the secondary resonant frequency are tuned for two different wireless

communications standards.

47. (New) The apparatus of claim 46 wherein the two wireless communications

standards comprise at least one of Bluetooth, 802.11a, 802.11b, and 802.11g.

-7-

Atty. Docket No.: P17641

08/02/07 15:59 FAX 5032641729

48. (New) The apparatus of claim 18 wherein at least one of a thickness of the skin in a vicinity of the slot, a width of the slot, a length of the slot, and a tuning element at a feed point of the slot are tuned to achieve at least one of a target impedance and a primary resonant frequency of the slot.